AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated hereafter (where underlining "_" denotes additions and strikethrough "-" denotes deletions).

Claims:

1. (Currently Amended) A solid free-form fabrication system for producing a three-dimensional object, comprising:

a jettable build material having nanofiller particulates dispersed therein;

an ink-jet dispensing system adapted to dispense the build material; and

a curing system adapted to harden the build material after being dispensed,

wherein the nanofiller particulates are dispersed within the build material ~~at~~ such that the nanofiller particulates comprise from 0.1 wt% to 20 wt% of the build material.

2. (Currently Amended) A system as in claim 1, wherein the ~~dispensing system includes an ink-jet printing dispensing system~~ nanofiller particulates are curable liquid crystals selected from the group consisting of low viscosity oligomeric liquid crystals, reactive monomeric liquid crystals, and combinations thereof.

3. (Original) A system as in claim 1, wherein the dispensing system is also adapted to dispense support material configured to support build material overhangs.

4. (Original) A system as in claim 1, wherein the build material includes a UV curable material and the curing system includes a UV curing system.

5. (Original) A system as in claim 1, wherein the build material includes a reactive build material and the curing systems includes a curing agent configured to be contacted with the reactive build material.

6. (Original) A system as in claim 1, further comprising a milling system adapted to mill the build material after being dispensed but before being hardened.

7. (Original) A system as in claim 1, further comprising a build platform configured to support the build material, said build platform also being configured to be lowered with respect to the dispensing system upon application of build material.

8. (Original) A system as in claim 1, further comprising a build platform configured to support the build material, said dispensing system being configured to be raised with respect to the build platform upon application of build material.

9. (Original) A system as in claim 1, further comprising a heating system configured to modify the temperature of the build material while within the dispensing system, thereby improving jettability of the build material.

10. (Currently Amended) A system as in claim 1, wherein the nanofiller particulates are ~~approximately~~ substantially from 1 nm to 500 nm in size.

11. – 30. (Canceled).

31. (Previously Presented) The system of claim 1, wherein the build material includes an epoxy material and the curing system includes a material having a functional group chosen from at least one of the following: amino, hydroxyl, and carboxyl.

32. (Previously Presented) The system of claim 1, wherein the build material includes a polyisocyanate material and the curing system includes a polyol material.

33. (Previously Presented) The system of claim 1, wherein the build material includes functionalized silicone material and the curing system includes a material reactive with silicone.

34. – 36. (Canceled).